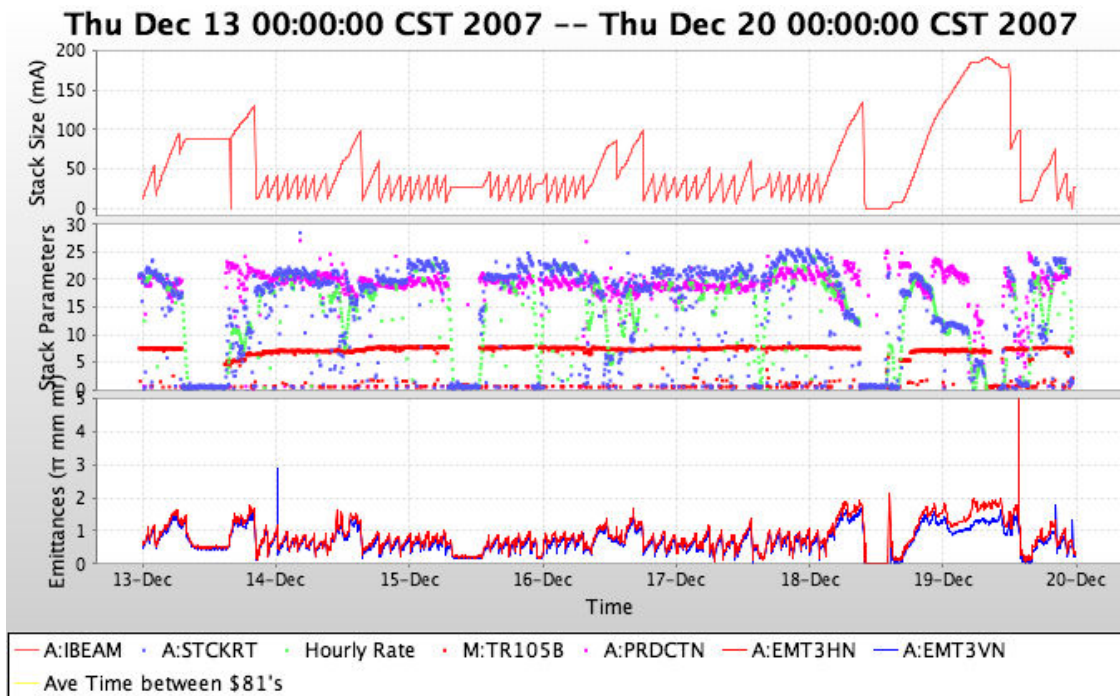


## 2007-12-20 Pbar Department Meeting

Thursday, December 20, 2007  
9:54 AM

### Performance:



### Pbar Source Operations

Thu Dec 13 09:58:52 CST 2007 to Thu Dec 20 09:58:52 CST 2007

#### Stacking

Pbars stacked: 2222.56 E10

Time stacking: 141.28 Hr

Average stacking rate: 15.73 E10/Hr

#### Uptime

Number of pulses while in stacking mode: 184891

Number of pulses with beam: 171562

Fraction of up pulses was: 92.79%

#### Corrected Stacking

Corrected time stacking: 131.09 Hr

Corrected average stacking rate: 16.95 E10/Hr

#### Recycler Transfers

Pbars sent to the Recycler: 2299.45 E10

Number of transfers : 165

Number of transfer sets: 54

Average Number of transfer per set: 3.06

Time taken to shoot: 08.67 Hr

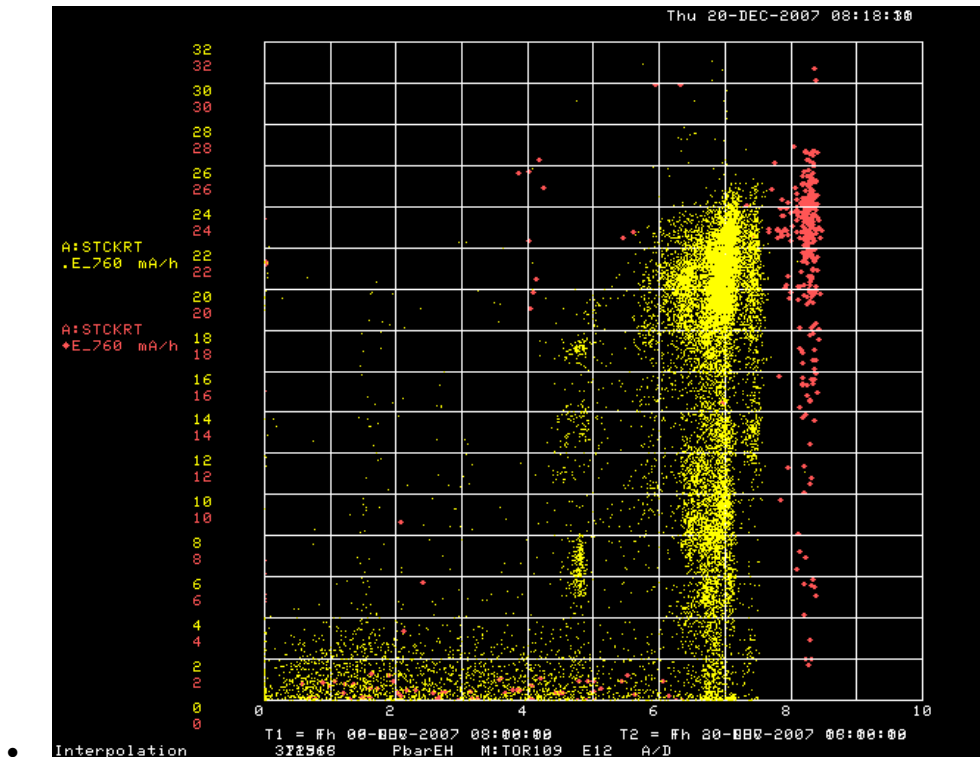
Time per set of transfers: 09.63 min

#### Other Info

Average POT : 6.71 E12

Average production: 19.30 pbars/E6 protons

Average production: 19.30 pbars/E6 protons



- Have had some large stacks and periods of no stacking
- AP2 vacuum led to access
  - IP708 has been tripping occasionally for a few weeks. Trips became more frequent. Night before access, was 30 minutes and adjacent ion pumps were starting to see bad vacuum.
    - Replaced ceramic feed through.
    - Impact to stacking was only 4 hrs 15 minutes.
  - Other job
    - Small LCW leak on IQ19 fixed
    - Isep transformer klixon looked at.
    - Did not do the Debuncher momentum gain balancing...will get deferred until after the holidays.
    - Quick rad measurements...only interesting thing the D-pipe at Accumulator injection was hotter and in a different place. Possibly circulating beam? We may want to try a bump there.
- Conductivity meter
  - Noisy when put it in. Had just got it back from calibration.
  - Changed alarm set point on Dec 5th to 0 volts.
  - Got worse.
  - Tripped off...
  - Took one off of the test stand.
  - The other two on the skid were sent in from calibration.
- AP0 welding.
  - Took out chipmunk. High frequency noise from welder. When moved to a different circuit across the building, didn't happen anymore.
  - Tripped sweeping.
- Debuncher Cooling measurements (<http://www-bd.fnal.gov/cgi-mach/machlog.pl?nb=pbar07&action=view&page=454&scroll=false&load=>)
  - 8-9 hours to get 3 hrs of measurements!!!
  - Ralph and Valeri are analyzing the data.
- Lattice Measurements - Vladimir
  - Still need to take more data.
  - Need dispersion and same data with reverse protons.

- Have not started D/A